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ABSTRACT

Fifty five community resources in and around the Boston area are listed in this field-study guide intended for teachers of primary and intermediate grades. Criteria as to the significance, concept development, structure, and feasibility of the use of resources as field study laboratories is given to make the study more relevant. The guide offers practical suggestions on planning, evaluation, and items needed for a more successful field study operations. Each resource, described in detail, provides information as to address, telephone, hours, tour time, minimum age admittance, admission costs, miles from Boston, and directions. Items are arranged alphabetically by resource names, and markings indicate recommended age and grade levels for field study. (SJM)

ED 064219

(Community Resource Project)

CM

FIELD-STUDY GUIDE

to

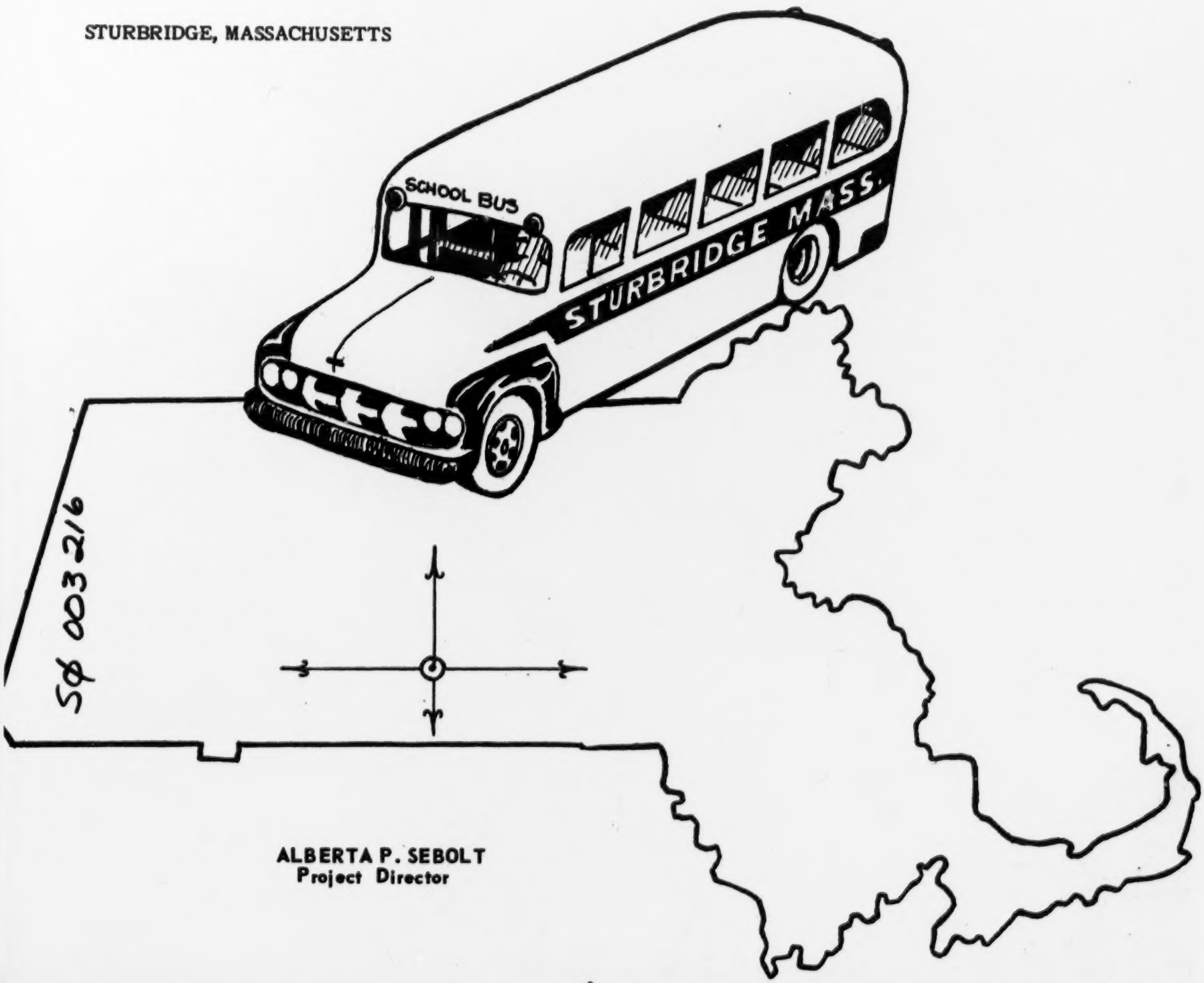
COMMUNITY RESOURCES

DEVELOPED BY

RESOURCE LEARNING LABORATORY

TITLE III E.S.E.A.

STURBRIDGE, MASSACHUSETTS



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Project Director

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P = Primary
I = Intermediate

I. Criteria For Use Of Resources As Field-Study Laboratories

While the community is rich in resources to be utilized as laboratories, consideration should be given to the following criteria:

A. Significance -

1. Will the resource provide a site for a study of significance?
2. What is the focus of the study?

B. Concept Development

1. Does the resource provide a laboratory for the development of significant concepts?
2. What are the concepts to be developed?
3. Are there preliminary concepts which the student must develop to make the field-study more meaningful?

C. Structure

1. What is the plan for the study?
2. What is the student expected to do during the study?
3. What is the student expected to do as a result of the study?

D. Feasibility

1. Does the resource understand your objectives?
2. Is the resource willing to cooperate?
3. Are there limitations? Age? Use?
4. Is the distance reasonable for student travel?
5. Is the resource vital to the study or can the information be obtained through other media?
6. Is the cost reasonable as related to the value?

II. Planning

Have plans been made with the school, the resource, the students, the parents, the route? (See sample Permission Slips)

Are there materials available which can be used prior to the study?

III. Evaluation

How have previous groups utilized the resource?
Was the experience successful?
How could it be improved upon?
Do you recommend this for others to use?

Things Needed On a Field-Study

1. Permission Slips
2. First-aid Kit
3. Game box
4. Cooler for milk
5. Large plastic garbage bags
6. Bag of Speedy-dry
7. Cameras and film
8. Clip Board and pupil list for teacher
9. Adult Group Leaders - 1 Adult per every 8 or 10 Students
10. Dress Code - Regular school clothes suitable for season

Suggestions for a more meaningful Field-Study

Briefing:

Those persons responsible for serving as group leaders should be given instructions as to the focus of the field-study.

What is the purpose of the study? (See sample Leader Sheet)
What is the focus?
What are the students looking for?
How is the field-study to be used in post field activities?

It is also helpful to give leaders background material relative to the resource which they can peruse prior to the field-study. If time permits invite the leaders for a pre-field slide presentation.

Guide-Sheets:

Data-retrieval charts or guide sheets with focus questions are helpful to students. These can be constructed with the students prior to the field-study. (See sample Student Sheet)

Addison Gallery of American Art

Phillips Academy, Andover

Hours: Monday - Saturday 9-5
Sunday 2:30-5

Description:

American works of art from colonial times to the present - paintings, sculpture, graphic arts, furniture, glass, textiles; 18th century silver, models of famous American sailing ships; art film library; Addison Gallery publications available at sales desk.

American Sugar Company

425 Medford Street, Charlestown

Tel. - 242-5335

Tour Time: Monday - Friday by appointment
Mornings offer the best time - 1 hour

Age Restriction - No one under 12 years of age

Description:

Mornings offer the best time to tour the only fully automated sugar refinery in the United States. Sixty different grades and types of sugar are processed here. Watch the raw sugar being mixed, washed and sifted--view all the packaging, from restaurant sizes to 100 pound bags. If a ship is delivering the raw sugar, there is an area where you may see the conveyors carry the raw product into the storage area. Any number up to 30 may take the one-hour tour.

Angell Memorial Hospital

180 Longwood Avenue, Boston

Tel. - 566-6100

Hours: Monday - Friday 10-3

For children's groups, make an appointment with the Humane Education Department.

Family groups may request a tour from the Public Relations Department without previous arrangements.

Description:

This is the largest animal hospital in the world and is owned and operated by the Massachusetts Society for the Prevention of Cruelty to Animals. The 20 minute tour includes the sick wards, explanation of X-Ray and operating rooms, and the adoption room which holds strays or given-up cats and dogs. The fee for cats is $2.00 and dogs are $7.00.

A speaker and films are available for group meetings. Call the Humane Education Department.

Aquarium

Albatrose Street, Woods Hole - 74 miles from Boston

Open: Mid June through mid September, 10-5 daily.

Admission - Free

Description:

About 35 live species of local fish, crabs, sea anemones, squid and starfish are in the 15 tanks ranging in size from 2 to 8 feet in length, plus one 20 foot tank. The Aquarium is a research adjunct of the Bureau of Commercial Fisheries of the U.S. Department of the Interior. Pictures, models, and samples of actual instruments used in studying marine fisheries and oceanic environment are on display. Among other well-labeled exhibits are shells of New England.

Blue Hills Trailside Museum

1904 Canton Avenue, Milton

Tel. - 333-0690

Hours: Sunday 1-5 year round
Tuesday - Saturday 10-5 May - September
Thursday - Saturday 10-5 October - April
Closed Mondays - Open during February school vacation - Group visits.

Admission: Children 3-12 $.10; Adults $.25

Directions: On Rt. 138 near the junction of Rt. 128, a ten minute drive south of Mattapan Square.

Description:

River otter in action offer one of the most animated outdoor exhibits. Red and gray foxes, quail, pheasant, hawk and deer are year round examples of life in the immediate territory. Inside at a "planter's table" are living wildflowers transplanted from the reservation outside, live animal demonstrations, and displays including plants, trees, minerals, meteorites, birds, mammals, amphibians, reptiles and fishes. Hike on marked trails: orange trail - $\frac{1}{4}$ mile (15 Min.), red trail - $\frac{1}{2}$ mile (30 min.) or greeen trail (30 min.) to the observation tower atop Big Blue. MDC picnic area with fireplaces available at Houghton's Pond, one mile from the museum.

Boston Globe

135 Wm. T. Morrissey Blvd., Dorchester

Tel. - 288-8000

Tours: Monday - Friday 9:30-3:30
Saturday 9:30-11:30
Tours held every hour on the half hour.
Groups should make an appointment

Age Restriction: Children should be at least 11 years

Description:

During the 45 minute tour you see the editorial staff at work, reporters coming, going, and writing, the news machines clicking with items of the moment, the composing room where the type is set, the mats being made and then put onto the presses, the photo-engravings made from the negatives. If you wish to see the presses rolling, plan on the 11:30 tour or any after that.

Carter's Ink Company

239 First Street, Cambridge

Tel. - 547-2950

Tours: One hour tour by appointment with Mr. Charles Clark.

Age Restriction: Children must be at least 6 years

Description:

See how inks are manufactured, bottled, and watch carbon paper and typewriter ribbons made.

Charlton Woolen Mill

Tel. - 248-5811

Tour time: Approximately 1½ hours
By appointment only

Description:

A guided tour of this old New England Woolen Mill will allow the student to view all operations of a wool re-processing plant. From the storage of wool rags, the student will observe cutting, scouring, blending, carding, drawing, spinning, and weaving. After weaving the cloth is fulled, washed and finished.

This process uses much water and the water for this mill is supplied by a near-by stream. An interesting side light to the tour is to see the effort made by this mill in water pollution control by aerating and settling the water before returning it to the regular stream flow.

Chevrolet Motor Division, General Motors Corporation

Western Avenue, Framingham

Tel. - 873-7421

Tours: Monday - Friday 1:30-3:00, November 1 - August 1.
Small groups (6-8 persons) need not make an appointment, but large groups (maximum 35) should write or call at least two weeks in advance.

Age Restriction: At least 12 years of age

Description:

Here automobiles are completely assembled, and the tour includes the entire process.

The Children's Museum

Jamaicaway (Rt.1) Boston, Massachusetts 02130

Tel. - 522-4800

Admission: 75¢

(See specific directions on Direction Sheet - Pg.29)

Reservations should be made in advance.

Note: School groups outside of Boston area are not permitted in the A.M.

Open 10-5 on weekends

Suggestion - Make reservations for 1 p.m.

Tour Time: 1½ - 2 hours

Description:

The exhibits in the Museum are constantly changing. All exhibits are designed to encourage participation. The museum is designed to allow the child to touch, talk and discover. The children move freely about the museum.

The museum offers nine levels of exhibits. Children can climb up to Grandmother's Attic and rummage through trunks and dressers. The attic includes early gramophones, crystal sets, old school books, toys, household items, and intriguing doll houses. In one of the participation exhibits, children over 8 are invited to move from booth to booth and make decisions from given information as they handle teeth of various animals and notice the forms and functions. You can make your own movies, see a silent one, or turn the old zeotrope, try a seat in the Algonquin wigwam, discover how many bean bags you weigh, play with colors and mirrors, work a computer, step onto a room-size desk blotter which is equipped with such items as a telephone twelve time life-size.

Children's Zoo

In Franklin Park at Seaver Street and Blue Hill Avenue, Roxbury

Tel. - 442-2216

Hours: Monday - Saturday 10-5 - April - October
Sundays and Holidays 10-6
Daily 10-5 - November - February
Closed in March to prepare for coming season.

All animals indoors.

Tours: By appointment spring through fall.
One hour

Admission: April - October, $.25 per person
Organized groups of 10 or more $.10 per child.
No charge during winter.

Description:

July - September and weekends April - June: Pet ring shows with an explanation and handling of animals allowed (put a tiger cub in your lap). Bottle feedings (children may do this).

This is a treat for all ages. Live baby animals including many that the children may handle. Some well placed play equipment is in the children's zoo and your child may climb over the fence (with the ladder helping him) into the goat corral. Refreshments (for you and the animals).

Picnic Area

Christian Science Publishing Society

1 Norway Street, Boston (Near Prudential Center)
Tel. - 262-2300
Travel time from Sturbridge - 1 hour (Turnpike)
Tours: Monday - Friday 9:30, 10:30, 11:30, 1:30, 2:30, 3:30
Make appointment 1 week in advance
Maximum number - 20 in a group
Length of tour- Approximately 40 minutes
Minimum age - 10 years

Description:

Guides explain the procedures involved in publishing the Christian Science Monitor as well as periodicals of the Christian Science Church. Among the departments you are taken to or through are the newsroom, pressroom, composing and advertising.

The mapparium is part of the tour. As you walk on a glass globe (30 feet in diameter) pretend you are at the center of the earth and notice the time zones and various depths of the ocean as indicated by blue shading. You gain an impression of the relationships of land and water surfaces of the world from the 608 individual sections, each one quarter of an inch thick. The globe, which shows the political divisions of 1932, has brilliant colors which are heightened by 300 electric lights outside the glass sphere. As the hard surface of the glass does not absorb the sound, the spoken word assumes enormity.

Note in the lobby of the building the barometer and other instruments which indicate wind velocity and direction.

Coca Cola Bottling

400 Soldiers Field Road, Allston
Tel: 782-9000
Take Allston-Cambridge exit off Expressway
Tours: Monday-Friday at 10:30 and 1:30
By appointment only
Maximum Number: 30
Minimum age: 6 years
Length of tour: 45 minutes

Description:

Children can see the syrup added to the carbonated water, then enter the bottling room and watch hundreds of bottles being filled, capped, and prepared for delivery. Each guest receives a sample and souvenirs.

Continental Baking Company

330 Speen Street, Natick

Tel: 244-4647 or 655-2150

(Take exit 13 from Mass. Pike - follow signs for Natick Mall)

Tours: September-June; Monday-Friday (except Tuesday)
At 9:30, 11:00, 2:00, 3:30
Two week notice required No Charge

Tour Time: 1 hour 15 minutes (Plant tour is 45 minutes except Friday - no cake baking- 35 minutes)

Minimum age: 2nd Grade

Description:

Tons of flour are hosed from railroad cars into storage area and miles of pipes handle ingredients in this seven acre plant. The largest bakery in the world is modern and automated.

You may see the making of novelties, doughnuts, sweet rolls, hamburg and hot dog rolls or English muffins and cakes. Guests follow the bread dough from its first mixing to the firmentation rooms and then into another mixing process before each batch of 1600 pounds is shaped into little balls which become individual loaves of bread. When you look through the length of the oven, it is possible to see the degrees of baking, a process which is followed by cooling, slicing and wrapping. Guests are given samples and souvenirs.

Cook's Canyon

Massachusetts Audubon Society
Wildwood Nature Center
Barre, Massachusetts

Entrance is on South Street, one-half mile south of Barre Common.

Tel: (617)355-4064

Open year-round

Admission: 50¢ per person with $10.00 minimum

Must make advance reservations for 2 hour guided or unguided tour

Description:

Named for its dramatic gorge, this 40 acre property includes pine plantation and mixed hardwoods bordering a rippling brook, waterfall, pond, and fern garden.

The Trail walk tour is an exploration of our native habitats with an overall emphasis on conservation. This covers forest management, water life, plant and animal life and animal homes.

Dinosaur Land

South Hadley

Tel. (413) 467-2941

Hours: April 15 - October 15 - daily

Admission - Adults 50¢
Children 25¢

Group tours by appointment

Description:

Natural History Museum with world's largest dinosaur foot print quarry.

Collection of mineral and stones

Thousands of dinosaur tracks

Drumlin Farm Nature Center

Rt. 117, South Lincoln (Mass. Audubon)

Tel. 259-9500

Open: Year round from sunrise to sunset

Admission: Free except on Sundays when there is a $1.00 per car parking fee. (This also admits you to the afternoon program)

Programs: Films, lectures, and family walks are held at 3:00 p.m. at the Nature Center on Saturday and Sunday. Program fee is $.25 per person.

Guided tours on request.

Fanny Farmer

84 Sidney Street, Cambridge

Tel. 876-1505

Tours: Tuesday, Wednesday and Thursday 9-11 a.m. and 1:30-2:30 p.m. by appointment with Mr. Goolden at least one week in advance. There are no tours between Thanksgiving and Christmas and a month before Easter.

Age restrictions: Children must be at least 8 years

Description:

The 45 minute tour includes the entire process of candy manufacturing. See (and smell) the ingredients as they are mixed in enormous kettles, put into different shapes, dipped via chocolate coating machines and decorated before they go into bulk packing boxes and then into fancy packages. A sample box is given to every guest. Groups should be no larger than 25

Fish Pier

Boston Fisheries Association, Inc., Boston 02210

Tel. 542-4688

Contact: Mr. Hugh O'Rourke

Tour Time: Approximately 45 minutes

Description:

This is not a formal tour but someone will be on hand to answer questions. Orientation is not necessary but there are books (comics) which give the history of the industry. Send for these in advance.

Mornings during the early part of the week present the best picture.

Tons of fish are unloaded from the hold by baskets and emptied into boxes on the pier.

Forest Park

Springfield

No reservations necessary - Open all year

Description:

Animals in barnyard can be fed. Visit the Monkey House and small room nearby which houses birds, snakes etc.

Bears, fox, etc. - outdoors

Picnic areas available throughout the park. Be sure to bring bread for the ducks.

Franklin Park Zoo No Charge

Located in Boston at the Roxbury-Dorchester line
Tel. 522-0900
The main entrance is at Peabody Circle near the intersection of Columbia Road and Blue Hill Avenue. There is parking at the Circle and on adjacent streets.
Open: June through October: grounds are open 8-7, buildings 10-4:45; November-May buildings close at 4:15 and the grounds at 5.
Closed Christmas and New Year's Day.
Feeding Schedules: Bears-3:00; elephants-3:30; lions-4:00; birds and hoofed animals - all day.

Description: Spread over a large area are real elephants, lions, swans, cranes, and many more picture book animals. There is a lion house, one for elephants, a bear den, a bird house which includes apes and monkeys and a large open area for hoofed animals. Picnic tables are located at the end of Center Mall opposite the Bird House. Plenty of shaded and sunny areas--plenty of walking too. Don't miss the Children's Zoo.

FREEDOM TRAIL

[Follow the red brick path imbedded in the sidewalks along 1½ miles of 15]

Information

Maps of the trail are available from the Information booth on the BOSTON COMMON - Tremont Street side.

1. Boston Common

This is the oldest public park in the country. In the past it has been used for hangings, stocks and pillary sites, pasture land and as a station for the British Troops during the Revolution. Near the State House is the Robert Gould Shaw Monument, erected to the memory of a brave young colonel and the Negro 54th Massachusetts regiment which he led in the Civil War.

2. State House

Guided tours: (45 Minutes) are scheduled twice daily. Check time if planning for group tour and make advance arrangements.

Tel. 727-3676
727-2816

3. Park St. Church

Hours: Monday-Friday 9 - 4:30
(Check on summer hours)

The spire and its clock have been landmarks since 1810. When the town granary occupied the site, the sails for the frigate Constitution were made here. Brimstone for gun-powder was stored in the crypt of the church for use in the War of 1812.

In 1829, William Lloyd Garrison gave his first anti-slavery address here.

4. Granary Burying Ground

(Tremont - next to Church)

Originally the site of the town granary. Included are graves of John Hancock, Treat Paine, Samuel Adams, "Mother Goose" and those killed in the Boston Massacre.

5. Kings Chapel

Hours: 10-4 daily

This was the first Church of England in the Massachusetts Bay Colony, the first Unitarian Church in America and the first to use organ music. Its bell was made by Paul Revere. It is the oldest stone (Quincy Granite) church in Boston.

(Continued on next page)

6. First Public School Site

A plaque on one of the fence posts near old City Hall designates the site of the first public school in the country.

7. Benjamin Franklin Statue

8. Old Corner Book Store

9. Old South Meeting House

The Boston Tea party was conceived here during a Town meeting that was too big for Faneuil Hall. After the citizens resolved that the tea should not be landed, those disguised as savages left from this point.

Now a museum, its exhibits include a model of Boston as it was in 1775, the tri-cornered hat of the Continental Army and paper currency.

10. Old State House

Built in 1713 - was the seat of the Colonial Government.

11. Boston Massacre Site

(Congress & State Streets)

The first blood shed of the Revolution was here when, on March 5, 1770, a jeering Boston crowd clashed with a British guard of nine soldiers.

12. Faneuil Hall

(Cradle of Liberty)

13. Paul Revere House

14. Old North Church

Friendly Ice Cream

1855 Boston Road, North Wilbraham, Mass. 01067

Tel. (413) 543-2400

Contact: Alan Hale

Tours: Year round by reservation
Monday-Thursday - 9, 10, 11 AM
One week notice required

Minimum age: first grade

Description:

Observe the mixing of ingredients and the injecting machine which puts the fruit or other solids into the ice cream mixture. You follow through to the end of the line where ice cream emerges from a tube and fills five-gallon containers for shop use. There is one machine for the half-gallon container and one that folds, fills and seals the carton.

Other tubes in this fully automated floor-to-ceiling tiled plant carry the makings of toppings such as marshmallow, strawberry or hot fudge and syrups (vanilla, root beer, etc.).

At the hamburger "show" you see the raw beef being unloaded from the trucks onto conveyors, then put into hoppers feeding a single machine which grinds, patties, portions (by weight) and packages. There is also the area where the meat is frozen before it leaves in the refrigerated trucks. After the guide takes you into the warehouse - complete with supplies of uniforms, mops, brooms, utensils and china - you're invited to eat your own cone.

Hadley Farm Museum

147 Russell Street, Hadley, Massachusetts 01035

(At the junction of Rts. 9 & 47 in Hadley)

Tel. (413) 584-7122

Hours: May 1 - October 12 - Tuesday-Saturday 10-4:30
Sunday 1:30-4:30

Contact: Miss Ruth McQueston No Charge

Description:

Collection of farm implements, vehicles, household utensils from colonial times through Civil War - housed in a 1782 barn.

Harrington Hospital (Public and Private Services)

Southbridge,

Tel. 764-2511

Contact: Miss Braxl - Director of Nurses

Tour Time: Approximately 45 minutes

Description:

Tour includes emergency room, X-ray room and demonstration, pharmacy, laundry, kitchen, record storage and reception and admitting area.

Available Materials:

A curriculum model designed for K is available plus a kit which includes hand puppets, pictures, books, transparencies and stethoscope.

Emphasis is on Public and Private Services

The John Woodman Higgins Armory No Charge

100 Barber Avenue, Worcester

Tel. 755-1100

Tours: Monday-Friday 8:30-4:30
Saturday 8:30-12
Guided tours with about 10 day notice

Minimum Age: 4th Grade

Tour Time: 1½ hours

Description:

Exhibits range in time and materials from the Stone Age through the Bronze and Iron Ages to our present era of Stainless Steels. Visitors may examine superb hand fabricated examples of medieval armor and compare these at once with modern machine-made metal products of precision and beauty.

School classes and other groups discover background information for many subjects. In the social studies, for example, the term "Feudalism" takes on a realistic meaning when it is explained with the help of actual armor and heraldic devices. History seems to come alive as a visitor stands face to face with a suit of armor once worn by a knight of old. Art becomes more understandable as one admires the flowing and functional curves of a sixteenth century helmet - a perfect combination of beauty and utility.

Museum talks and tours emphasize the relationship of the collection to art, history, industry and science. Questions are encouraged. A tour of the Worcester Pressed Steel Company factory normally follows the museum visit. The program, lasting about one and a quarter hours, can be fitted to your requirements.

Supplementary Material: 10 Color Slides

Hood Milk

500 Rutherford Avenue, Charlestown

Tel. 242-0600, ext. 430 Also a Springfield plant

Tours: Monday-Friday at 10 a.m. and 1:30 p.m.
Reservations needed

Age Restriction: Children should be at least third grade

Description:

After being served a glass of milk, visitors see slides depicting the process from farm to milk plant. As many of the processes within the plant are quite noisy, the slide showing offers the explanation. In the plant there are miles of glass pipes enabling you to follow the milk as it goes from pasteurizers and homogenizers into cartons and bottles and finally put into cases and onto trucks.

Merrimack Valley Textile Museum

Massachusetts Avenue, North Andover
(29 miles north of Boston) Rts. 125 and 133 intersect Mass. Ave.

Hours: Tuesday-Saturday 10-4, Sundays 1-5
Library closed on Sundays. Museum closed
Mondays, January 1, Thanksgiving, December 25

Admission: Free

Description:

A study of the role of wool manufacturing in American history can be made through exhibits illustrating the various processes of woolen cloth manufacture from raw wool to finished cloth. With each process hand-operated implements alternate with power driven machinery to emphasize the transition from handicraft to factory production during the Industrial Revolution.

Laughing Brook

Hampden, Massachusetts

Tel: (413) 566-3571

(See specific directions on Direction Sheet - Page 29)

Hours: Tuesday-Saturday 10-5
Sunday 1-5

Tour Time: Approximately 1½ hours

Admission: 25¢

Description:

This was the home and studio of Thorton Burgess, the noted children's author, who died in 1965. It has been developed as a nature and conservation center by the Massachusetts Audubon Society. The native North American animals that Burgess wrote about are the central attraction of Laughing Brook. Peter Rabbit, Reddy Fox, Bobby Coon, and all the other Burgess characters can be seen in enclosures along the brook, in a wooded deer park, or in the animal building. There are also more than two miles of nature trails throughout this 250 acre sanctuary. The Crooked Path Trail is about a 20 minute walk, the Striped Chipmunk Trail would take about 30 minutes, and the Green Forest Trail is about 1 hour.

Available Supplementary Material:

Set of 7 Colored Transparencies (Burgess Animals)
Set of 20 Black & white transparencies of various small and large animals
Set of 3 Burgess Story Books
Set of 77 Color Slides - Laughing Brook Animals - large and small

McLaughlin Fish Hatchery

Belchertown,

Tel. (413) 323-7671

Tour Time: Approximately 30-45 minutes

Note: Good to combine this with trip to Quabbin Reservoir

Description:

This newly built hatchery raises rainbow trout for the purpose of stocking ponds throughout Massachusetts.

Indoor beds house younger fish.

Outdoor beds include those ready for stocking.

Early springtime recommended before pond-stocking time.

The fish eggs are flown in from the State of Washington and hatched here.

Museum of Fine Arts

479 Huntington Avenue, Boston — No Charge

Tel. 267-9300 Time: 1 hour & 15 minutes from Sturbridge

(Take Prudential Center exit off expressway - go down Huntington Avenue toward Fenway about 4 blocks.)

Hours: Tuesday-Saturday 10-5
Sundays 1:30-5:30

Description:

Among the 200 galleries: The finest Old Kingdom sculpture exhibit outside of Cairo, the results of a Museum-supported 40 year expedition, includes mummies, alters, and hieroglyphies in renovated galleries.....The Oriental collection with elegant screens and a Japanese fashioned garden adapted for inside..... The Ancient Musical Instruments room has pieces which are kept in playing condition, when possible. You may see the Glockenspiel from the Harriet Beecher Stowe estate, a snakewood violin bow from 1800, a Swedish viola da gama with carved monster head, or 18th century hunting horns. The early 19th century European 36 glass bell armonica (made to be played by a seated musician) is the type invented by Benjamin Franklin. The decorative arts wing with a 1694 room from Britian's Hamilton Palace and a 1760 Louis XVI salon complete with rococo mirrors and tapastries and chandeliers.....The authentic Catalonian Chapel on the second floor. The Greek and Roman galleries include a coin collection.... The work of Paul Revere, a master silversmith before he became a legend, is an important part of an American silverware collection that dates from 1640.....Special galleries of primitive and 20th century art.

Guided Tours: School groups may request guided tours Monday-Friday. If you have a special area of interest discuss when booking reservations.

Museum of Science - Boston

Tel. 742-1410 No Charge

Hours: Monday-Saturday 10--5
Sunday 11-5

Tour Time: Approximately 1 hour & 45 minutes

Description:

Upon entering the foyer the students will see the 185 pendulum ball swinging from the 5-stories-high still cable (evidence that the earth is spinning in space). Students will question this and should be allowed to develop their own explanation.

There are periodic animal demonstrations; announcements while you are in the museum tell you where and when. You are free to redirect your group to that spot at the time. "Spooky" the owl will follow your movements, the snake, Black Beauty, may rest in students hands, there are life-size Mercury and Apollo Capsules to view and a ship to steer. Students may hear their telephone voice, play tic-tac-toe with a computer, listen to the talking transparent woman, make a sand pattern, let push-button exhibits tell you about your skeleton or activate models of early wagons, locomotives, and an automobile engine. When you crank the generator, mechanical energy is converted into electrical energy lighting electric bulbs.

Special Programs

A choice of one of the three following programs is available to all visiting groups. Arrangements must be made in advance.

1. Microtheatre - Microscopic Life (45 min.)
[Grades 5-8 or 9-12]

A closed circuit television system gives visitors a close up view of living micro-organisms, usually animals available in local pounds. Despite their miniscule size, these creatures are a basic part of the living world. The program for grades 5 through 8 provides an elementary introduction to microscopic life featuring such micro-organisms as amaeba, paramecuim, and daphnia.

2. Charles Hayden Planetarium

Lecture - demonstration (45 Min.)

In this Theatre of the Skies you see an amazingly realistic depiction of the heavens, past, present, and future with changing programs featuring phenomena, natural and man made.

(continued on next page)

3. Natural History Program (45 min.)
Grades K-4

What's a mammal? How does it vary from a reptile? How do they differ in body covering, movement, characteristics, or manner of reproduction? Using alligators, mice, snakes, skunks, and other live and mounted specimens, the Museum lecturer explains how and why animals are grouped and classified. Youngsters in small groups learn about mammal and reptile characteristics by observing--and by handling some of the animals. With advance notice this informal program, geared to audience age level, may be modified to supplement school lessons.

Time Schedule -

Suggested time allowances are as follows:

Travel time - Sturbridge to Museum - 1 hr. 30 min.

Special Programs - 45 minutes each

Lunch (on bus) - 20 minutes

Exhibit Halls - 1 hour or 1 hour 30 minutes

Mystic Seaport

Mystic, Connecticut

Rt. #27 - between U.S.#1 and U.S.#95

Tel: 203-536-2631

Open: Daily, year-round

Hours: Late April - early November 9-5
Early November - late April 9-4

Admission: Summer - Adults (16-over) $3.00
Children $1.25

Winter - Adults $2.50
Children $1.00

Picnic Area Available -- Arrangements for groups must be made 3 weeks in advance. Call Education Department

Description:

This is a re-created 19th century seaport village with authentic houses, buildings, shops, and ships of the period.

The greatest attractions are the ships which are docked at the seaport and can be boarded and explored.

Interpretors in the shops explain their trade and its importance to the period.

Stillman House is a museum filled with ship models, figureheads, paintings, and navigational equipment.

Available Supplementary Material:

Approximately 35 Color Slides - Buildings, ships, crafts

Coloring book of scenes of Mystic Seaport

New England Aquarium

Central Wharf, Boston
Tel. 742-8830

(See specific directions on Direction Sheet - Page 29)

Admission: 75¢ - Group rates available by advance registration

Hours: 9-5 Weekdays
10-6 Saturdays
12-8 Sundays

Caution: Because of the physical set-up, children tend to rush through. Traffic is one-way - so take your time - you can't go back.

Description:

In the center of this intriguing structure is a giant ocean tank which is four stories high and some 40 feet in diameter. The coral reef environment with over 40 species of aquatic animals, including giant sea turtles, moray eels and sharks will enable you to explore the ocean depths.

As you leave the penguins you see the electric eel demonstration, life-size shark silhouettes provide you with a vivid impression of the varied shapes and sizes of these boneless creatures.

Beneath you is a tray of fresh water which surrounds the giant ocean tank. As you look down into the tray, rosy-billed ducks may be fanning their wings on the island as South American porpoises frolic in the water.

Aquatic animals from all over the world are exhibited in lifelike environments. Peering out at you from any one of over 70 display tanks may be an exotic poisonous fish, a soft shell turtle, or a shy octopus.

A special children's aquarium contains an exciting tide pool which ebbs and flows with the ocean tide. Here youngersters of all ages can actually handle living aquatic creatures such as starfish, crabs and sea urchins.

Coordinated with the living displays are descriptive panels with large color transparencies depicting such subjects as animal behavior, fish sounds, signals, commercial fishing, ocean dynamics and angling tips.

Northeast Airlines

Logan International Airport, East Boston

Tel. 567-8300, ext. 444
Tours: Monday-Friday 10-11 a.m. by appointment only

Description:

Climb aboard an aircraft and pretend you are a passenger, or examine the inside of a cockpit (sit in the pilot's seat), tour the flight control center while it is in operation, hear the airplane radio working, visit the reservations department and the engine shops of the only Boston based airline. Young visitors receive a basic explanation; older ones hear more of the technicalities of operations. Tour lasts about an hour.

Old Slater Mill Museum

Roosevelt Avenue
Pawtucket, Rhode Island 02862

Tel: 401-725-8638

Open: February 1 - December 31 Tuesday-Saturday 10-5
Sunday 2-5
Guided Tours and Demonstrations by arrangement only

Admission: Adults .50¢ - Special price for school groups

Description:

Built in 1793, the Old Slater Mill is the birthplace of our nation's cotton industry. It was the proving ground for modern factory methods, which stand as a turning point in the industrial progress of our country and the world.

The first successful water-powered textile machinery built in this country, along with an assembly line for cotton yarn was first set in motion in this mill.

The restored mill stands on the original site overlooking the Blackstone River and is now in the heart of the Pawtucket business district.

Picnic area can be found at Slater Memorial Park about 15 minutes away - off Route #1A.

Available Supplementary Material:

Set of approximately 20 Color Slides

Booklets: "The Story of Cotton"
"The Genius of Samuel Slater"

Old Sturbridge Village

Sturbridge, Massachusetts - Junction of Rts. 15, 20 and Mass. Turnpike

Tel: (617) 347-3362 - Ask for School Services

Open year-round

Admission: $1.00 per student and adult for scheduled group

Must call or write for advance school group reservations (No charge for School Union #61)

Hours: Late October - Late November 9:30-4:30

December - March 10-4 - Saturday - 10-4:30

Mid-March - End of March 9:30-4:30

April - October 9:30 - 5:30

Restrictions: No school groups are scheduled for Sundays or National Holidays.

Schools within a 50 mile radius of the Village should schedule their Field-Study from Mid-November through the end of March.

(This does not include School Union #61)

Description:

As a regional historical museum, OSV shows the manner of living in a typical inland New England town during the first fifty years after the American Revolution. With homes, farms, fields, small shops and mills, school-house, and meeting-house, the period 1790 to 1840 comes alive as hosts, hostesses, and craftsmen demonstrate and explain the way these rural New Englanders worked, traded, learned, worshipped, and participated in local government.

Available Supplementary Material:

Set of 73 Color Slides - OSV building, farm, and craftsmen

Video Tapes - 1. Northeast Farm Community - 20 minutes

2. OSV - 25 minutes

3. Spinning and Weaving - B/W - 20 minutes

Peabody Museum (University Museum - Harvard)

Oxford Street (Off Kirkland Street)
Cambridge

See specific directions on Direction Sheet - Page 29.

Tel: 868-7600

Hours: Monday-Saturday 9-4:30

Admission: Free - unguided

Description:

Children visiting this Museum really visit four museums in one. The Peabody itself centers on native and prehistoric cultures of the Eskimos, various American Indians and early Mexican - Maya and Toltec. The Museum of Comparative Zoology includes fossils found in Australia and Africa, whale skeletons, reptiles and birds. The Botanical Museum features the famous Ware Collection of hand-blown glass flowers. The Mineralogical Museum has over 15,000 specimens of minerals including a push button display of fluorescent minerals.

Prudential Center (Boston)

Tel: 236-2345

Tours: Unguided - by appointment
Tour takes about 45 minutes

Admission: 15¢ per student - 50¢ per teacher

Travel time: Approximately 1 hour from Sturbridge

Description:

From the 50th floor of the 750 foot Prudential Tower, students can see a spectacular view of Boston. This is the highest observation point in Boston and allows viewing from all four points of the compass. Greater Boston includes seventy-six cities and towns, an area of 987 square miles and you can see them all from here. The East view - the old city of Boston - is one of the most interesting.

(For upper elementary grades, consider side trip to Mapparium - see Christian Science Publishing Society, Page 8, in this guide)

Available Supplementary Material:

Set of 42 Color Slides of Prudential and views of Boston

2 Slides of Mapparium

Plimoth Plantation

Box 1620
Plymouth, Massachusetts

Tel: 764-1622

Pilgrim Village: Two miles south of Plymouth Rock on Route 3A - See specific directions - Pg.29

Admission: Adults $1.25 - Children .50¢

Open: Early in April through Thanksgiving

Hours: Spring and fall 9-5
Mid June - Labor Day 9-7

Orientation: There is a good orientation and movie before entering the village.

Description:

Plimoth Plantation is the re-created Pilgrim Village of 1627. The 15-20 buildings, Indian camp site, and the costumed guides help explain many aspects of Pilgrim life. The Fort-Meetinghouse, palisade, and defense bastion bears witness to external dangers to this small settlement of English religious dissenters. The homes, tools, and furnishings bespeak their Elizabethan heritage. This re-creation, still incomplete, is about 2½ miles below the original site.

Available Supplementary Material:

Approximately 35 Color Slides - Buildings, Streets, Crafts
A picture book of the Pilgrim's Story
Primary selected old documents and maps
Nearby side trips: Plymouth Rock and Mayflower II

Quabbin Reservoir (Water Study)

Belchertown
Tel. (413) 323-6921
Tour Time: Approximately 1½ hours
Contact: Mr. Harold Mellon or Mr. Edward Dulong
Call a few days in advance

Description:

Staff personnel will provide a guided tour of the administration building which includes the offices, laboratory, police station, boat hanger and ramp, and jail. They will also conduct you through the power plant below Winsor Dam.

You can then visit the fire tower and tour through the area. Be sure to see Quabbin Dike.

Visit the old cemetery across the street and take time for grave stone rubbing. Note monuments in cemetery which have been moved from the towns which were inundated.

Available Materials:

Teachers guide - Model #1 - Water Study
Water Background Paper
Comic books
Transparencies
Slides
Filmstrips and records (pollution)

Saugus Ironworks

Central Street, Saugus 9 miles north of Boston

Open: Daily except Mondays, from May 15 - October 15, 9-4
Demonstrations at 11:00 and 3:00 weekdays and at 11:00 a.m., 1:30 p.m., 2:30 p.m. and 4:00 on Saturdays and Sundays.

Admission: Under 5 no charge; 5-16 $.50, adults $1.00. By omitting Ironmaster's House school children may be admitted for $.25. Organized group rate (excludes Ironmaster's House) allowes for one adult with every 8 children: $.25 children, $.50 adults.

Description:

Restored industrial plant (the original was built by John Winthrop in 1650) of the birthplace of America's iron and steel industry on the banks of the Saugus River. The blast furnace, which was rebuilt with many of the stones from the original structure, is a replica of the 300 year old forge where cast iron "sow" bars from the furnace were reheated and "beaten" into usable wrought iron. One of the greatest attractions is the use of powerful water wheels in use at the rolling and slitting mill. Adjoining the master's house, one of the oldest homes left in New England, is the museum with relics found during the excavation of the old ironworks.

Picnic area available. No refreshments sold.

Springfield Armory Museum

Federal Street, Springfield

Tel. (413) 739-6911 No Charge

Hours: Tuesday-Saturday 10-4

Group tours by appointment

Contact: Mr. Thomas J. Wallace

Description:

Large collection of military small arms

Library on weapons

A National Historic Landmark

Springfield - George Walter Vincent Smith Art Museum

Tel. (413) 733-4214

Contact: Mrs. Louise Watkins
Mr. Donald Reichert

Hours: Tuesday-Saturday 1-5
Sunday 2-5

No Charge

Description:

Galleries of Chinese claisonne enamels, Chinese carved jades, crystals and other hard stones

Japanese and Chinese potteries

19th Century American paintings

Roman glass

Japanese and European arms and armor

Lectures, demonstrations, documentary films

Springfield - Museum of Fine Arts

Tel. (413) 733-5857

Hours: Tuesday-Saturday 1-5

No Charge

Description:

17th century Dutch, 18th century Italian, 18th and 19th century French painting sculpture, tapestries, armor, ceramics, furniture, Gothic and Renaissonce works on loan from the Metropolitan Museum in New York.

Oriental Art

Japanese and Western prints

18th - 19th century American paintings

Group tours by appointment

Lectures and gallery talks regularly scheduled, lending library of slides, photographs, mounted reproductions.

Springfield Newspapers

Springfield Daily News
Springfield Union

32 Cypress Street

Tel. (413) 787-2411

Group tour by arrangement

Tour Time: Approximately 1 hour

Description:

A guided tour of this newly constructed plant takes the student through the inner operations of the newspaper.

Students visit the editorial, composing and press rooms as well as wire room, teletypes and wire photo operations and morgue.

They may view the giant multi-million dollar press in operation.

Materials:

Dedication Issue 1970 is available from the Springfield Union and Daily News.

Springfield Science Museum

236 State Street, Springfield

Tel. (413) 732-4317
432-7911

Hours: Tuesday-Saturday 1-5 p.m.
Sunday 2-5 p.m.

Admission: 25¢ per person

Description:

Galleries of mammals, birds, habitat exhibits, American Indian ethnology, African elephants, plants, invertebrates, fish, reptiles, gealogy.

Aquarium with live local fish and other vertibrates line upper balcony.

Planetarium - Lectures by arrangement

Children's Department for younger children

State Line Potato Chips

Wilbraham
Tel. (413) 596-6168
Hours: Monday-Thursday 9-11

Description:

Complete procedure from cutting to packaging.

Tupper Hill Wildlife Sanctuary

Wales
Tel. (413) 267-4495
Contact: Robert Beggs
Hours: Monday-Saturday
Two tours daily
Group arrangements in advance
Tour Time: Approximately 2 hours

Description:

Mini buses transport small groups (12-16) through the sanctuary with drivers serving as guides. Flora native to the Eastern seaboard have been transplanted and identified within the sanctuary.

This sanctuary is also concerned with the birds and other animals as well as conservation practices. A mixture of millet, buckwheat, corn and oats is sown in a number of field and some deep in the woods. It is not harvested.

The tour begins in the museum (converted barn) where walls are covered with framed pictures of the wild flowers. The upstairs is an exhibit of the skins, mounted animal heads, pictures, momentos etc. gathered by Norcross on his expeditions.

University of Massachusetts - Farm

Tel. (413) 545-2371
Hours: Any day
Contact: Bernard Hilton (Farm Superintendent)

Description:

The tour will take about 2 hours but there is no time limit. Students will see cows, goats, sheep, pigs, horses and chickens.

U.S.S. Constitution

Boston Naval Yard, Charlestown — No Charge
Tel. 242-1400
Hours: 9:30-4:00 every day of the year

Description:

"Old Ironsides" is the 44 gun frigate launched in 1797 and undefeated in 40 battles. It was rebuilt by funds from American school children, was recently refurbished, and is still an offically commissioned flagship of the U.S. Navy. There are three decks connected by steep narrow stairways. (Crew members are helpful with younger children) Notice the ship's bell, towering masts, hammocks that were the beds for the crew, and large kettles in which soups and stews were cooked for over 400 men.

U.S.S. Massachusetts (Big Mamie)

Battleship Cove, Fall River
Hours: 9:00 a.m. to sunset - daily
Admission: Adults $1.00 - Children under 14, $.50
Special group rates are available seven days a week upon prior arrangement.

Wachusett Meadows Wildlife Sanctuary

Box 268, Princeton, Massachusetts 01541
Tel. (617) 464-2712
(off Route 62 - west of Princeton)
Hours: Museum open April-September

Description:

900 acres of woods and fields with trails
Museum of natural history with local plants and animals
Conservation education facilities
Group tours by appointment

Whaling Museum

18 Johnny Cake Hill
New Bedford

53 miles south of Boston (about a 90 minute worthwhile drive if children have an interest in the whaling era)

Hours: June 1 - September 30: Monday-Saturday 9-5
Sunday 1-5

October 1 - May 31: Tuesday-Saturday 9-4
Sunday 1-4

Closed on some national holidays

Admission: Children 6-12, $.25 - Adults $1.00
Groups of 10 or more adults: $.50 (Advance notice necessary).

Worcester Science Center

222 Harrington Way
Worcester

Tel: 971-9211

Open: Monday-Saturday 10-5
Sunday 12-5

Admission: Children 75¢ - Adults $1.50

Directions: From Sturbridge - Rt. #20 to Worcester. Left on Quinsigamond State Park Road (Lake Avenue). Left on Hamilton Street and right on Harrington Way.

Description:

The Worcester Science Center is patterned somewhat after the Boston Children's Museum. Many opportunities are available for children to touch...smell...listen...and experiment. The center is particularly well suited for the Elementary School child since it is <u>not</u> just a museum of exhibits but one of participation. The Alden Omnisphere provides a unique experience in the study of stars and space. Special programs and demonstrations are scheduled throughout the day.

Yankee Atomic Electric Plant

Rowe, Massachusetts

Tel: (413) 625-6140

Contact: Mr. Roland Emery

Tour Time: Approximately 2 hours

Full day trip from Sturbridge

Description:

Although students do not actually enter the reactor complex itself they do view the entire installation from a reception building.

The atomic power process is explained by lecture and motion picture film. A detailed scale model of the power plant is also located in the reception building.

Samples of the fuel pellets (oxide of uranium) are on display along with the fuel tubes and reactor rods used in Yankee's Atomic reactor.

Several free publications explaining atomic power and the Yankee story are also available.

DIRECTION SHEET

(All from Sturbridge, Mass.)

1. Children's Museum - Mass. Pike east to Rt.#128. South on Rt.#128 to Rt. #9. East on Rt. #9 to Brookline Village (about 5 miles). Turn right on Rt. #1 - South to Jamaica Pond. Children's Museum is across the street from Jamaica Pond.
   (Narrow driveway for busses to parking lot)

2. Laughing Brook - Rt. #20 west to dual highway, past Brimfield. Go left across dual highway at sign for Dean Pond. (Easthill Rd.). Continue on this road to Rt. #32 in Monson. Left on Rt. #32 to third right. This road goes over the Wilbraham Mts. to Hampden and goes past the entrance to Laughing Brook - on right.
   (Parking lot for busses on left)

3. New England Aquarium - Mass. Pike east to expressway. Expressway to exit at Northern Avenue - Atlantic Avenue. Continue on Atlantic Avenue. N.E. Aquarium is on right on Central Wharf.
   (Drive into bus parking area)

4. Peabody Museum - Mass. Pike to Expressway. Take Allston-Cambridge exit - Follow signs over bridge for Cambridge. Take left at second light (Putnam Avenue). Continue until intersection with Mass. Avenue. Take left on Mass. Avenue to Harvard Square. Go right at Square to Kirkland Street. Keep left after underpass and take left at lights (Quincy Street). Take left on Kirkland Street and follow to front of University Museum. Busses may park inside the parking lot. Enter Museum from front entrance.

   The Peabody Museum is reached by going through corridor on third floor or by going around building outside.

5. Plimoth Plantation - Mass. Pike east to Rt. #128. South on Rt. #128 to Rt. #44. East on Rt. #44 to Plymouth center. Go past Plymouth Rock and Mayflower II - about 2½ miles on Rt. #3A. Plimoth Plantation entrance is on right.
   (Park busses in parking lot)

Student Sheet

Museum of Fine Arts -

Classical Art - Greek and Roman

This museum has many artifacts from the various periods of Greek and Roman Civilization. Identify 2 artifacts and gather the needed information.

Identification of Artifacts	Greek	Roman
What is it? (name and date)		
What is it made from?		
What can you tell about the people from the object?		

Leader Sheet

Museum of Fine Arts — Greek and Roman

[Museum guides will direct this study but it is helpful if each leader is familiar with the purpose and design]

Purpose for trip:

This trip has been planned to provide the student with a laboratory situation to gather information relative to the Greeks and Romans.

Pre-field study has centered on the growth of these civilizations and identification of their culture. Because our culture has so many Greek and Roman influences i.e. - governmental structure, language, architecture, it is designed to help the child understand the development of his culture.

Field-Study - Focus Question: What can we tell about the people from looking at their artifacts?

Greece

The artifacts from this civilization identify the use of various materials - ivory-bronze-pottery, etc... Many of the paintings depict scenes in the everyday life and mythology of the particular period.

There is much that can be discovered about the people by looking at these artifacts. Through observation students can discover such things as:

The materials used (perhaps natural resources of the period)

occupations (from the paintings on pottery - such as blacksmith or carpenter)

activities (leisure time or harvesting of crops - raising animals)

values and ideas - (sculptures - coins - statues)

Post-Field Study

The students will classify the information on a data-retrieval chart similar to the one attached. We hope to make some inferences about the Greek and Roman civilizations as a result of this.

FIELD TRIP

NOTIFICATION AND PERMISSION

Dear Parent:

As a part of class study, your child will be visiting

_____

on_____.

Students should bring a bag lunch and milk will be available at the usual cost.

☐ The trip will occur during the regular school day.

☐ Due to the nature of the trip a late return is planned. Please plan transportation for your child.

Return time_____.

☐ No charge for the trip.

☐ Admission fee is_____.
Please send with your permission.

Please sign and return the form below indicating permission for your child to participate.

- -

NAME OF CHILD _____

PARENTS SIGNATURE _____

FIELD TRIP PERMISSION

Dear Parent:

As a part of class study, your child will be visiting -

_____ Boston Common and Boston Gardens (Boston)
_____ Children's Museum, The (Boston)
_____ Friendly Ice Cream Plant (Wilbraham)
_____ Harrington Hospital (Southbridge)
_____ Higgins Museum (Worcester)
_____ Laughing Brook (Hampden)
_____ Museum of Fine Arts, The (Boston)
_____ Museum of Natural History, The (Springfield)
_____ Mystic Seaport (Groton, Connecticut)
_____ New England Aquarium, The (Boston)
_____ Old Sturbridge Village (Sturbridge)
_____ Plimoth Plantation (Plymouth)
_____ Prudential Center, The (Boston)
_____ Quabbin Reservoir (Belchertown)
_____ Science Museum, The (Boston)
_____ State House, The (Boston)
_____ Tupper Hill Wildlife Sanctuary (Wales)
_____ University of Massachusetts Farm (Amherst)
_____ U.S.S. Constitution, The (Boston)
_____
_____

This field study is planned and sponsored by RESOURCE LEARNING LABORATORY, a Title III Project in School Union #61.

Please sign and return the form below indicating your permission for your child to participate.

- -

NAME OF CHILD _____

DATE OF TRIP _____

PARENTS SIGNATURE _____